ROCKY FLATS ENVIRONMENTAL,

TECHNOLOGY SITE EMD OPERATING

PROCEDURES MANUAL VOLUME II: GROUNDWATER

Manual No.: Procedure No.: 5-21000-OPS-GW Table of Contents, Rev 21

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02/16/95 Environmental Management

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INFORMATION ONLY

DOCUMENT MODIFICATION REQUEST (DMR)

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		ONE		DOCUMENT MODIFI	_	ATION NEGOEST		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	17.02 1 01	11
				cessing Instructions.	1.	^{Date} 2/13/95	25.	AD No. OF S	ME M	10/15 10/15
Print or Type All Information (Except Signatures). 2. Existing Document Number/Revision			DMR No. 95-DMR- 0095 [3. New Document Number or Document Number if it is to be changed with this Revision							
5-21000-OPS-GW.6/Rev. 2			N/A			-				
4. Originator's Name/Phone/Pager/Location V. J. Crawford/6959/0811/080				5. Document Title Groundwater Sa	mplin	ng				
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8. Item	9. Page	10. Step				Modifications				
1	In second paragraph on this page, delete main part of first sentence "the well will be allowedthe start of sampling." Also delete 2nd, 3rd, and 4th sentences. Combine beginning of first sentence, "For wells that dewater," with last sentence, "if a sufficient"									
2	23	5.8.1	In paragraph 3, in sentences 4 and 6 change "32" to "48" hours. Delete sentence 7, "If a wellanytime the next day."							
3	- 38	In second paragraph on this page, delete first half of first sentence, "The Groundwater Levels Piezometers) and" Start the first sentence with "The Chain of Custody Record"								
12. Justif			dification, EJO #							
 Sampling methodology has changed. The goal is to collect a full suite of water samples from each well, and each sample bottled be representative of the formation water. 										
2.	Sa	ampling	period ret	urned to 48 hours.						
3. Information redundantly entered. The water level and total depth measurements are on Form GW.6B.										
If modific are listed	ation is for in Block 1	a new proced 3, then Conc	dure or a revision urror prints, and	n, list concurring disciplines in Block 13, and ente signs in Block 14, and dates in Block 15.	er N/A	A in Blocks 14 and 15. If modification	n is for a	ny type of change o	or a cancellation, or	ganizations
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Upon completion of purging, VOC samples will be collected first. Sampling should be done as soon as possible after the well has been evacuated. If VOCs are to be collected by a method other than that used for purging (i.e., displacement or peristaltic pump), then all other samples will be collected prior to removing the pump from the well.

For wells that dewater, the well will be allowed to recover 50 percent of its original volume before the start of sampling. If a well will not recover 50 percent within 24 hours after dewatering, the VOC sample will be collected when a sufficient volume of water has accumulated for VOC sample collection. The calculation for recovery will be performed as described in Subsection 5.6.1. However, 50 percent recovery will be used instead of 90 percent. if a sufficient volume of water for VOC sample collection has still not accumulated within 24 hours after the completion of purging, VOCs will not be collected for that well.

The containers used for sample collection from poor producing wells may differ from those used for high yield wells in some instances due to constraints on obtaining enough sample to fill sample containers. In some instances smaller containers may be utilized, or chemical parameters normally collected in separate containers may be combined into a single container. Well histories can be used to identify which wells may require the modified sample suite. These wells will be sampled for a maximum of 32 48 hours after the completion of purging, with the exception of VOC sample collection discussed in the previous paragraph. The completion of purging will be considered 0 hour. At the end of 32 48 hours, partial samples will be measured. If a well is purged in the a.m. on day one, then the well can be sampled anytime the next day. Accumulated sample will be compared to the minimum volume requirements identified in Table GW.6-1. If the minimum volume requirement for the target parameter has not been achieved, the partial sample and bottle will be disposed. This volume may be less than the typical volume collected. All parameters which have only minimum samples volumes collected and all uncollected parameters will be documented.

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number of field activity daily log sheets used to record media team activities for a given day will also be included.

The Groundwater Levels Measurement/Calculations Form (see SOP GW.1, Water Level Measurements in Wells and Piezometers) and The Chain of Custody Record (see SOP FO.13, Containerizing, Preserving, Handling, and Shipping of Soil and Water Samples) will also be completed for each site. All blank fields on the forms must be completed or voided.